

## METEOROLOGICAL SUMMARY FOR BRAZIL, JANUARY, 1925

By J. de SAMPAIO FERRAZ

Six anticyclones affected the country in this month. Generally, their tracks continued abnormal, running in the east northeasterly direction, with centers delayed off the coast. The continental depression was particularly active from the 7th to the 14th and from the 17th to the 19th, more so in the first period.

Rainfall distribution corresponded to the abnormal aspects of the synoptic charts. Except Rio Grande do Sul, well in the tracks of the highs, all the other southern and central States had abundant rainfall. The lagging of anticyclonic centers off the coast, from Rio up to S. Catharina, with the continental depression in contact with them brings heavy precipitations between the two systems and well within the area of low pressures.

From Bahia northward, rainfall was generally scarce except in Maranhao. From the Amazon no observations were received in time for the summary.

The weather in Rio de Janeiro was very unsettled throughout the month, with frequent showers. Maxi-

mum temperatures were unusually low, two degrees on the average under normal value. On the 16th and 24th the city was struck by fresh southern winds.

Crops generally did well but lack and excess of rainfall have not been favorable to many of them. Wheat suffered most from excessive precipitation and consequent rust.

## A CORRECTION

About "Fluctuations in the values of the solar constant" (Mo. Wea. Rev., 53: 519-521): Dr. Götz, of Arosa, draws my attention to my not having mentioned his note in the *Astronomische Nachrichten* 221, 335, No. 5300, which, I am sorry, so far has remained unknown to me and which reports about extraordinary atmospheric-optical observations of the 22nd and 23rd January 1922 (telluric solar corona, abnormal distribution of illumination, upper-cirri, diminished solar radiation) and brings them into relation with the observations summarized by Prof. Wolf in the *Astronomische Nachrichten*, 5249, as possible consequences of the Chilean volcanic eruption.—C. Dorno.

## BIBLIOGRAPHY

C. FITZHUGH TALMAN, in Charge of Library

## RECENT ADDITIONS

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies.

**Baur, Franz.**

*Grundlagen einer Vierteljahrstemperaturvorhersage für Deutschland.* Braunschweig. 1926. 39 p. 31 cm.

**Carnegie institution of Washington. Dept. of terrestrial magnetism.**

Ocean magnetic and electric observations, 1915-1921. Magnetic results, by J. P. Ault. Atmospheric-electric results, by J. P. Ault and S. J. Macchly . . . Washington. 1926. vii, 430 p. illus. 15 plates (incl. front., maps). diagrs. 30 cm. (Researches of the Department of terrestrial magnetism. v. 5.)

**Czechoslovakia. Hydrologická služba.**

Přehledná zpráva o pozorování sněhu . . . za zimní období 1924-1925. Rapport général des observations nivométriques dans la République Tchécoslovaque pendant l'hiver 1924-1925. Praze. 1925. unpr. plates. map (fold.) 25½ cm.

**Gibbs, William Edward.**

Clouds and smokes, the properties of disperse systems in gases and their practical applications . . . London. 1924. xiii, 240 p. illus. plates. diagrs. 22½ cm.

**Grabham, G. W., & Black, R. P.**

Report of the mission to Lake Tana 1920-1921. Cairo. 1925. xix, 207 p. plates (part fold.) 34 cm. (Min. pub. works, Egypt.)

**Great Britain. Meteorological office. International meteorological organization.**

Commission for the exploration of the upper air. Report of the meeting in London, April 16-22, 1925. London. 1925. 79 p. fig. plates. 24½ cm. (M. O. 281.)

**Gregg, Willis Ray.**

In the aerial ocean. p. 8-10. illus. 30 cm. [Western flying, v. 1, no. 2, Feb., 1926.]

**Guitton, Raoul.**

Etude sur le climat de Bastia. p. 234-277. figs. 25 cm. [Bull. de la Soc. sci. hist. & natur. de la Corse. Bastia. 1924. 44e année. 3d trim. 1924.]

**Hurst, H. E.**

Lake plateau basin of the Nile. Cairo. 1925. v, 75, 4 p. plates (part fold.) map. 28½ cm. (Min. pub. works, Egypt. Phys. dept. paper no. 21.)

**International geodetic and geophysical union. Section of terrestrial magnetism and electricity.**

Transactions of Madrid meeting, October, 1924, edited by Louis A. Bauer . . . November, 1925. Baltimore. [1925.] viii, 180 p. figs. 25 cm.

**Italy. Servizio idrografico.**

Osservazioni pluviometriche raccolte nel quinquennio 1916-1920. Roma. 1925. viii, 155 p. 34 cm. (Pubbl. N. 1, Serv. idrog. v. 5. Bacino del Po. Ordinata Filippo Eredia.)

**Kidson, Edward.**

1. Some periods in Australian weather. 2. Observations of visibility at various Australian stations during 1923 and 1924. 3. Atmospheric pollution: observations with the Owens' dust-counter during 1923 and 1924. [Melbourne. 1925.] 50 p. figs. 31 cm. (Comm. of Australia. Bur. of met'y, Melbourne. Bull. no. 17.)

**McAdie, Alexander George.**

War weather vignettes. New York. 1925. 62 p. front. plates. 22½ cm.

**Marinelli, G[iuseppe.]**

La meteorologia e la unificazione delle rotte transatlantiche. Roma. 1925. 29 p. charts. 24½ cm. (Estr.: Rivista marittima. Dic., 1925.)

**Niblack, A. P.**

Summary of data on uniformity in storm warning signals. Cannes. 1925. 17 p. plates. 27½ cm.

**Poisson, Ch.**

Normales météorologiques de Tananarive. p. 59-63. 28½ cm. [Bulletin économique.]

Un problème de météorologie tropicale. Louvain. 1925. 30 p. 25 cm. (Extr.: Revue des questions scientifiques, juil., 1925.)

**Rossby, Carl-Gustaf.**

Den Nordiska aerologiens arbetsuppgifter. En återblick och ett program. p. 364-376. figs. 23½ cm. (Svenska sällskapet för antropologi och geografi. Ymer. Årg. 1923, H. 3.)

**Schmid, Josef.**

Klima, Boden und Baumgestalt im beregneten Mittelgebirge. Ein Beitrag zum Wasserhaushalt und zur Oberflächengestaltung. Neudamm. 1925. 133p. illus. plates (part fold.) 24 cm.

**Schulz, Bruno.**

Hydrographische Untersuchungen. B. Beiträge zur Kenntnis der Gezeiten an der flandrischen Küste und auf der unteren Schelde. Hamburg. 1925. 63 p. illus. plates (part fold.) 29 cm. (Deutsche Seewarte. Aerol. und hydrog. Beobacht. der deutschen Marine-Stationen während der Kriegszeit 1914-1918. H. 2.)

**Sherwood, George H.**

Big tree and its story. The Sequoia and the history of biological science. New York. 1924. 31 p. illus. 25 cm. (Amer. mus. nat. hist. Guide leaflet no. 42.) [Climate and history as recorded by the big trees, p. 25 fig.]

**Slettenmark, Gustaf.**

De Svenska flodernas vattenmängder. Stockholm. 1925. 56 p. plates. 31½ cm. (Meddelanden från Statens meteoro- logisk-hydrografiska anstalt. Bd. 3, No. 5.)